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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/069,522	05/29/2002	Shogo Ishioka	020239	9372	
38834 7	7590 10/07/2004		EXAMINER		
WESTERMAN, HATTORI, DANIELS & ADRIAN, LLP			TERESINSKI, JOHN		
1250 CONNEC	CTICUT AVENUE, NW	ART UNIT	PAPER NUMBER		
WASHINGTON, DC 20036			2858		
			DATE MAILED, 10/07/200	4	

DATE MAILED: 10/07/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Applicati	on No.	Applicant(s)	
Office Action Summary		10/069,5	22	ISHIOKA ET AL.	, ,
		Examine		Art Unit	
		Donald M	. Lair	2858	
Period f	The MAILING DATE of this commun	ication appears on the	e cover sheet with the	correspondence addres	s
	ORTENED STATUTORY PERIOD F	OD DEDI VIQ SET T	O EVDIDE 2 MONTH	J(S) EDOM	
THE - Exte	MAILING DATE OF THIS COMMUNI nsions of time may be available under the provisions	CATION. of 37 CFR 1.136(a). In no ev	_	•	
- If the - If NO - Faile Any	SIX (6) MONTHS from the mailing date of this comme period for reply specified above is less than thirty (3) period for reply is specified above, the maximum staure to reply within the set or extended period for reply reply received by the Office later than three months a	 days, a reply within the state atutory period will apply and w will, by statute, cause the app 	ill expire SIX (6) MONTHS fro lication to become ABANDON	m the mailing date of this commun IED (35 U.S.C. § 133).	nication.
Status	ed patent term adjustment. See 37 CFR 1.704(b).				•
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1)[\]	Responsive to communication(s) file				
2a)∐		2b)⊠ This action is r			
3)[_]	Since this application is in condition closed in accordance with the practi				rits is
Disposit	ion of Claims				
4)[\inf	Claim(s) 1,2 and 4-8 is/are pending	in the application.			
-,	4a) Of the above claim(s) is/a		nsideration.		
5)□	· · · —				
6)⊠	Claim(s) 1,2 and 4-8 is/are rejected.				
7)	Claim(s) is/are objected to.				
8)□	Claim(s) are subject to restrict	ction and/or election r	equirement.		
Applicat	ion Papers				
9)	The specification is objected to by the	e Examiner.			,
	The drawing(s) filed on is/are:		objected to by the	e Examiner.	
,,,,,,	Applicant may not request that any object				
	Replacement drawing sheet(s) including		_		.121(d).
11)	The oath or declaration is objected to	by the Examiner. N	ote the attached Offic	e Action or form PTO-1	52.
Priority	under 35 U.S.C. § 119				
-	Acknowledgment is made of a claim	for foreign priority un	der 35 IJ S.C. & 1190	a)-(d) or (f)	,
	☐ All b)☐ Some * c)☐ None of:			a) (a) or (i).	,
	1. Certified copies of the priority				
	2. Certified copies of the priority		, ,		
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	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (P	PTO 948)	4) Interview Summa Paper No(s)/Mail		
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DETAILED ACTION

Claim Objections

1. Claims 5 and 6 are objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claims 5 and 6. See MPEP § 608.01(n).

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1, 2, and 4 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Takahashi (US-6,097,202).
- 4. In regards to Claim 1, Takahashi discloses an inspection apparatus for inspecting a circuit wiring on a circuit board comprising:

a supply means for supplying an electric signal to one of the ends of a circuit wiring and varying a voltage in the circuit wiring (Fig. 1, element 46);

sensor means including a plurality of sensor elements arranged in an array (Fig. 1, element 50), each of the sensor elements being adapted to generate an inspection signal in response to voltage variation of a conductor adjacent thereto (Column 4, lines 47 – 56);

sensor element select means for selecting at least one sensor element adjacent to the other end of the circuit wiring among the plurality of sensor elements (Fig. 1, element SW2); and output means for outputting the inspection signal from the selected sensor element (Fig. 1, elements SW2 and 48)

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wherein said sensor element select means includes a first switching means for controlling the connection between each of said sensor elements and the ground, and said sensor means includes a second switching means for controlling the connection between each of said sensor elements and said output means (Fig. 1, elements SW2 and 50). Since elements SW2 and 50 are electrically connected it is within a reasonable interpretation to say that the sensor means includes the second switching means.

- 5. In regards to Claim 2, Takahashi discloses an apparatus comprising the elements described above, wherein the supply means is adapted to supply the electric signal to selected one of a plurality of circuit wirings on the circuit board (Fig. 8; Column 4, lines 34 42), the sensor element select means is adapted to select all of the sensor elements adjacent to respective ends of the plurality of circuit wirings (Fig. 7B; Column 4, lines 47 56), and when the inspection signal is generated in at least one of the sensor elements selected by the sensor element select means, the output means is adapted to output the inspection signal (Fig. 1, elements SW2 and 48).
- 6. In regards to Claim 4, Takahashi discloses an apparatus comprising the elements described above, further comprising detecting a disconnection in the circuit wiring according to the inspection signal output from the output means (Column 2, lines 10 20).
- 7. In regards to Claim 5, Takahashi discloses an apparatus comprising the elements described above, wherein the inspection apparatus is adapted to be disposed opposed to the circuit board (Fig. 1).

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- 8. In regards to Claim 6, Takahashi discloses an apparatus comprising the elements described above, further comprising a universal tester adapted to be connected to the plurality of inspection apparatuses (Fig. 1).
- 9. In regards to Claim 7, Takahashi discloses a method for inspecting a circuit wiring on a circuit board by using sensor means including a plurality of sensor elements arranged in an array, each of the sensor elements being adapted to generate an inspection signal in response to voltage variation of a conductor adjacent thereto, the inspection method comprising the steps of supplying the electric signal to one of the ends of the circuit wiring and varying a voltage in the circuit wiring (Fig. 1), selecting at least one sensor element adjacent to the other end of the circuit wiring among the plurality of sensor elements (Fig. 1), and detecting a disconnection in the circuit wiring according to an signal output from the sensor element selected in the step of selecting at least one sensor element (Column 2, lines 10 20), wherein said sensor element select means includes a first switching means for controlling the connection between each of said sensor elements and the ground, and said sensor means includes a second switching means for controlling the connection between each of said sensor elements and said output means (Fig. 1, elements SW2 and 50). Since elements SW2 and 50 are electrically connected it is within a reasonable interpretation to say that the sensor means includes the second switching means.
- 10. In regards to Claim 8, Takahashi discloses a method comprising the steps described above, wherein a plurality of circuit wirings on the circuit board are simultaneously inspected by arranging the sensor means in the plural number (Figs. 1 and 7b).

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Response to Arguments

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11. Applicant's arguments with respect to claims 1, 2, and 4 – 8 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Donald M. Lair whose telephone number is (703) 305-4450. The examiner can normally be reached on Monday - Friday, 8 AM - 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, N. Le can be reached on (703) 308-0750. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9318 for regular communications and 703-872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1436.

Donald M. Lair

Patent Examiner

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September 30, 2004

Supervisory Patent Examiner
Technology Center 2800